David-Link

W-1288

USER'S MANUAL

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FCC WARNING:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantees that interference will not occur in a particular installation. Residential installation of this equipment may cause harmful interference in which case user is encouraged to correct the interference at his or her own expense.

CAUTION:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1 GENERAL INFORMATION

1.0 Notification

Do not attempt to service the W-1288 yourself. Opening the terminal will void the warranty. Always follow the instructions in this user's manual.

1. Do not place the terminal in direct sunlight. Bright light may significantly affect fingerprint reads. The terminal is designed for indoor use in a temperature range of 32-104° F (0-40° C). Keep the terminal away from heat sources such as radiators.
2. The terminal warranty does not cover defects or damages arising from improper installation, improper storage, abuse, ordinary wear-and-tear or unauthorized service.
3. Please save your data and records in USB thumb drive or in your computer periodically. David-Link is not responsible for any lost data and records from the terminal and software.

1.1 System Overview

W-1288 is a Time & Attendance system designed for small to medium size businesses with up to 300 employees. W-1288 verifies an employee's identity based on an individual's matching fingerprint. Your business will also reduce costly payroll and data entry errors caused by the old time card system and accounting staff's calculation by hand.

1.2 Main Features

-User-friendly TFT LCD menu interface

-DL Time Management Software included

-Standalone device

-Easy USB downloads for data and records

-Fingerprint/password/proximity card (optional) punch

-Variable security threshold

-Fingerprint capacity: 3,000

-Transaction storage: 50,000 log records

-Communication: RS485, TCP/IP, USB

-Verification: 1:1 or 1:N

-FAR < 0.0001%

-FRR < 1%

-Matching speed: <1 second

-Language: English, Chinese, Japanese, Spanish

-Operating voltage: DC 9V

-Operating temperature: 32 ~ 104 ºF

-Backup battery (optional)

-Door access control available

-Large Color LCD Screen

-1 year limited Manufacturer Warranty Included

1.3 Equipment

W-1288 package includes:

- 1x W-1288 system
- 1x USB connecting cable
- 1x User's manual
- 5x Sample proximity card (W-1288P and W-1288PB)
- 1x Software CD
- 1x AC/DC adapter
- 1x Wall-mount toll set
- 1x USB Flash Drive

2 SYSTEM SUMMARY

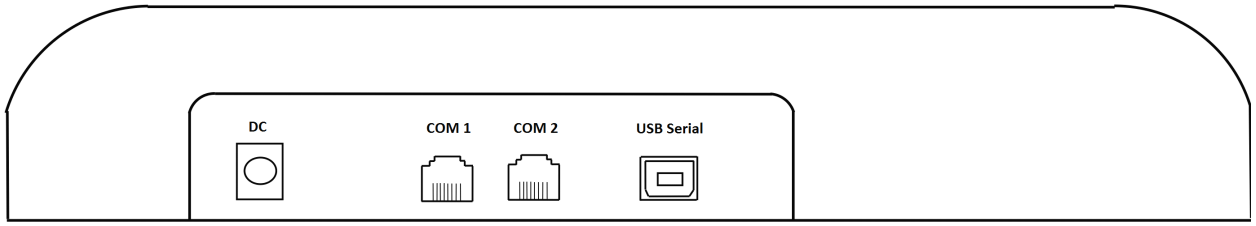
2.1 System Configuration

2.1.1 Model Selection

Three levels are available in David-Link Model W-1288. Please see the table below for comparison:

Model No.	Description
W-1288	David-Link Biometric Time & Attendance System
W-1288P	David-Link Biometric Time & Attendance System with Additional Proximity Badge Verification Method
W-1288PB	David-Link Biometric Time & Attendance System with Additional Proximity Badge Verification Method and Built-in Backup Battery

2.1.2 Terminal Communication Ports



Bottom of Device

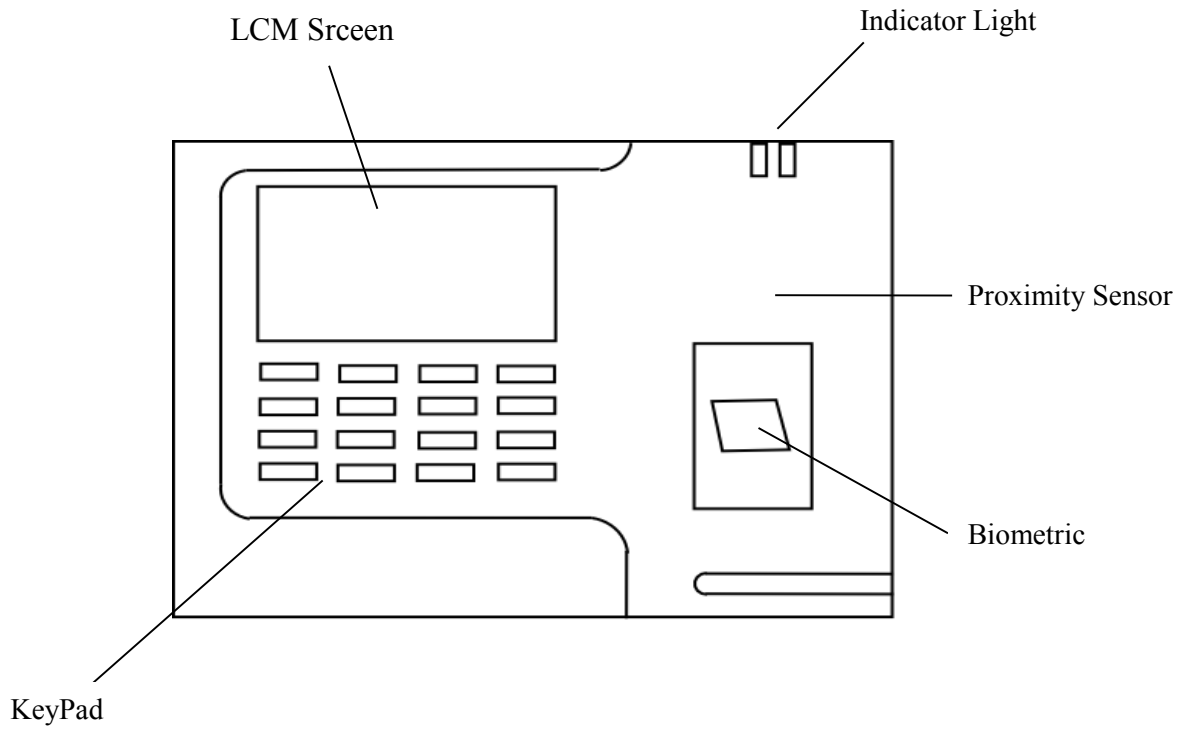
Port	Connect by	Connect to
DC	Power Supply	Outlet
COM 1	RS 232 RS485	PC
COM 2	TCP/IP	PC or Router
USB Serial	USB Cable	PC

2.1.3 Keypad Function

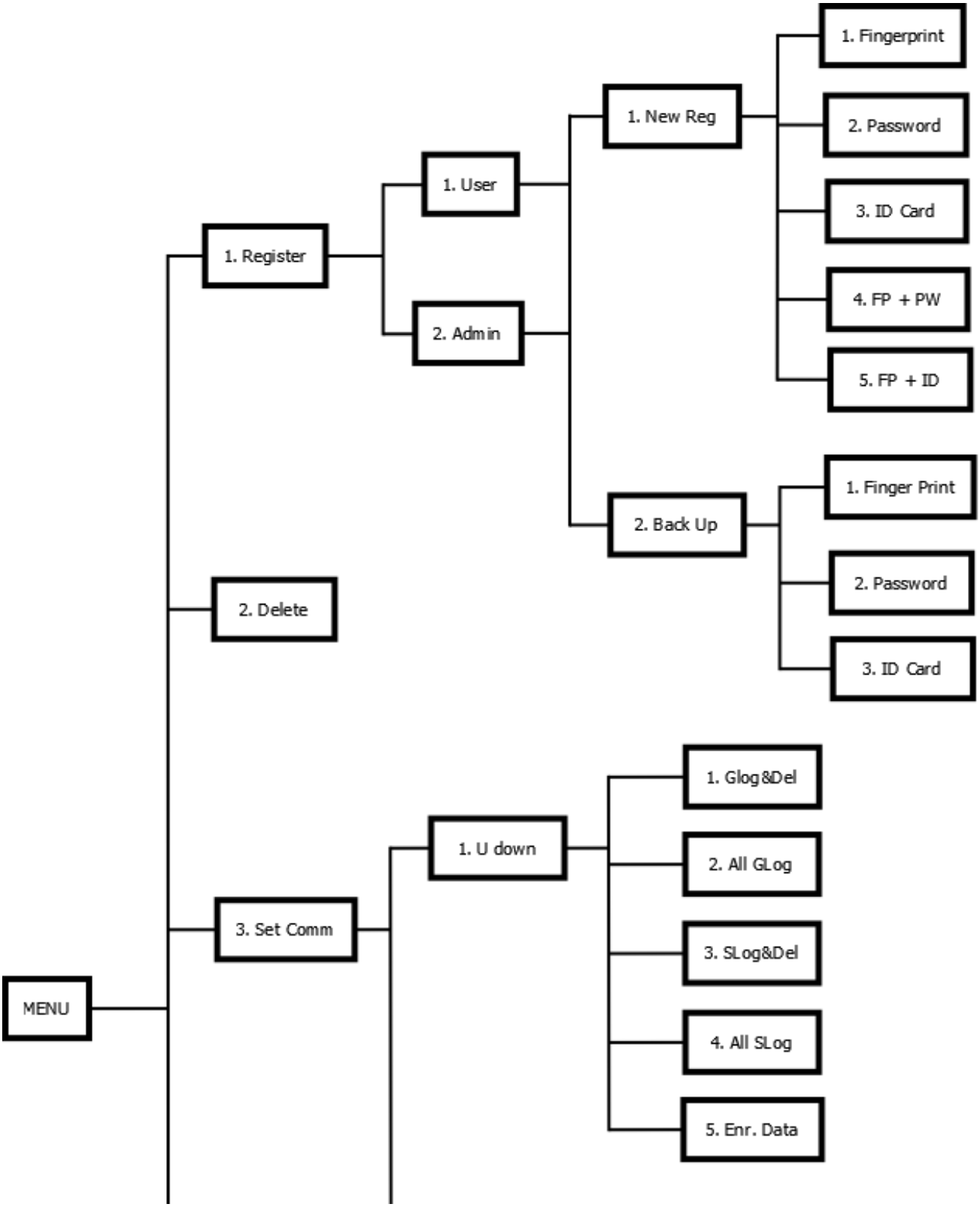
1	2	3	ESC
4	5	6	MENU
7	8	9	▲
•	0	OK	▼

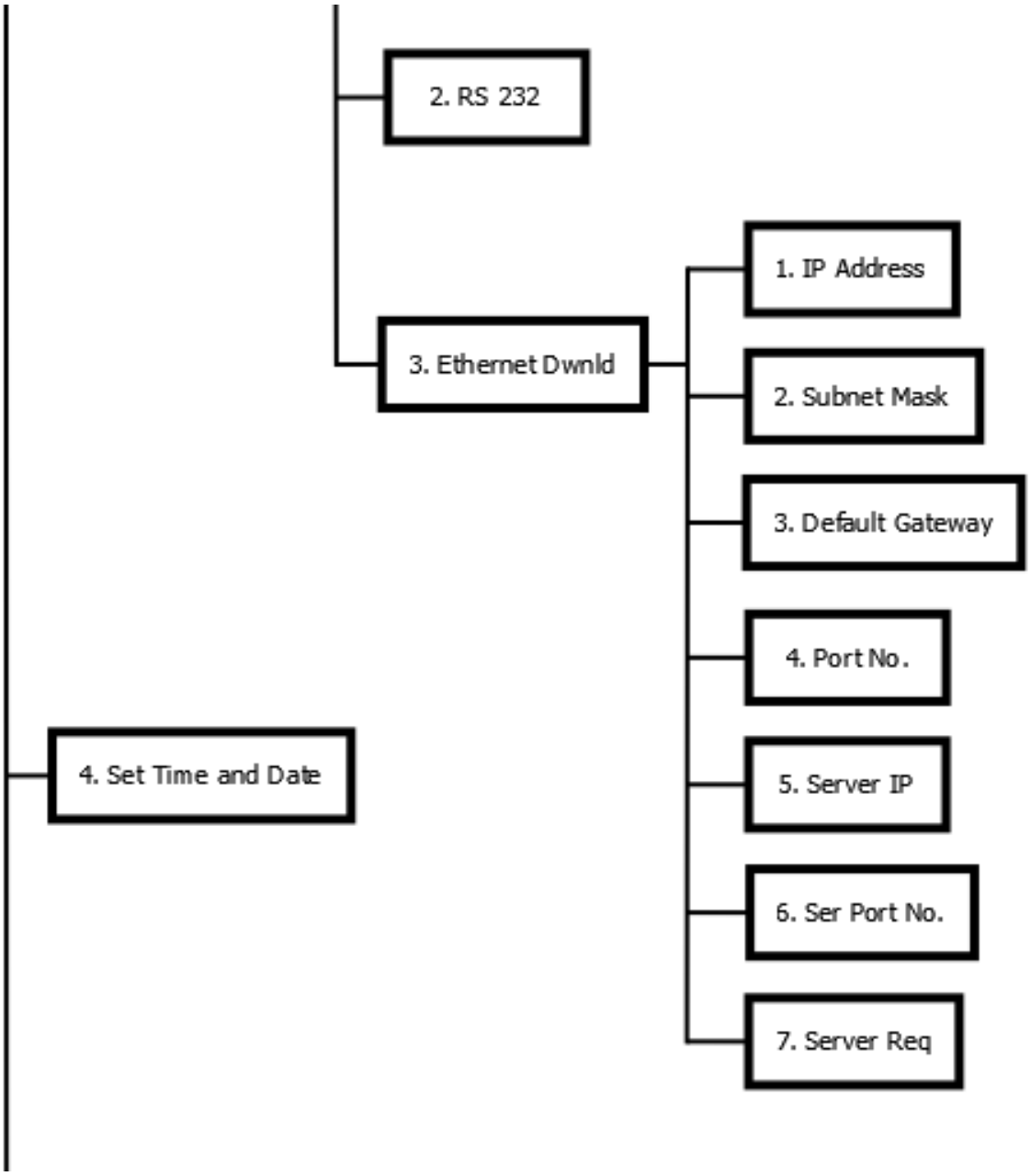
ESC	Back last page
MENU	Enter Setting mode
OK	Confirm setting
▲	Move up
▼	Move down
0-9	Number key
•	Power ON/OFF (push and hold)

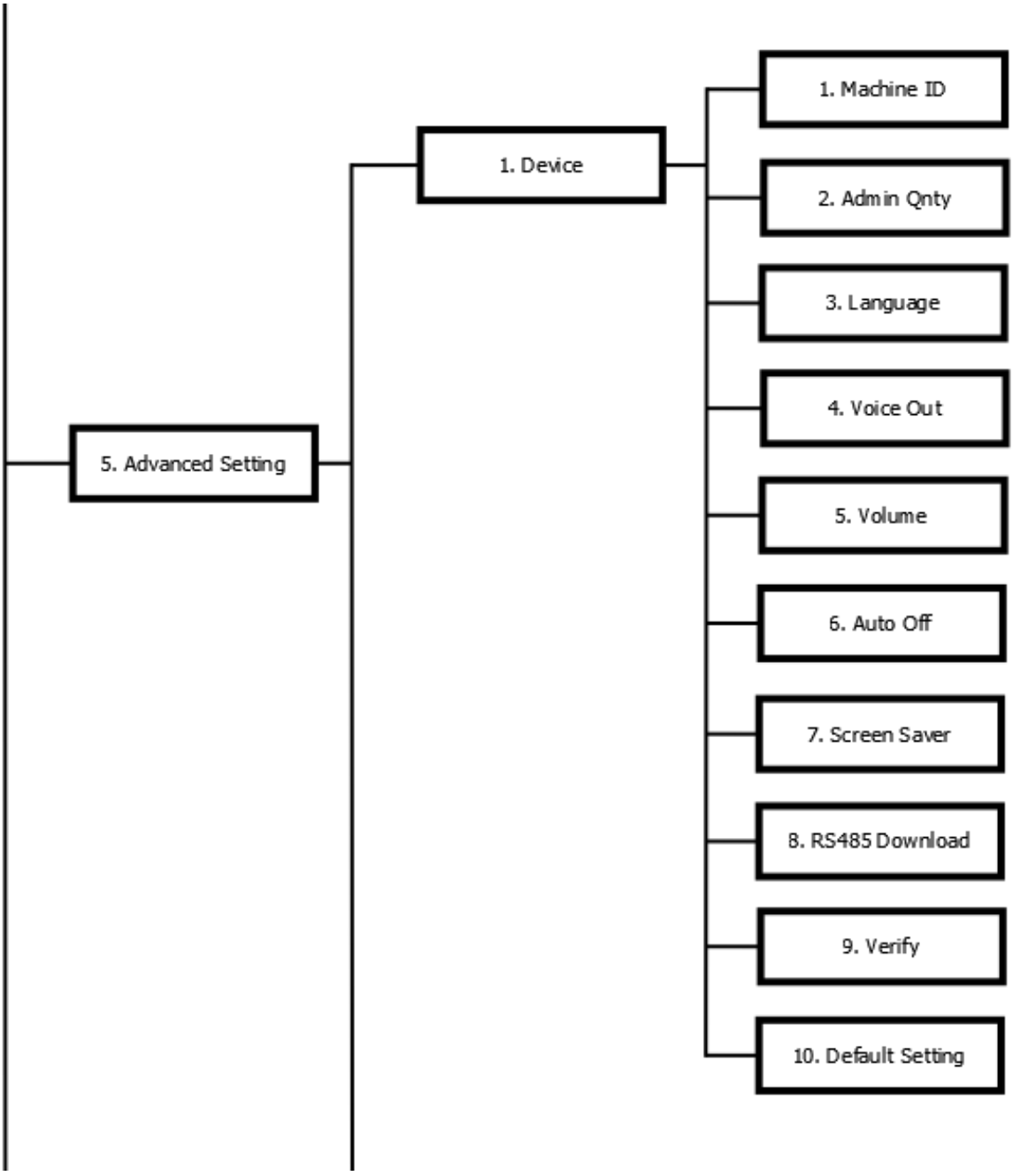
2.1.4 External Overview

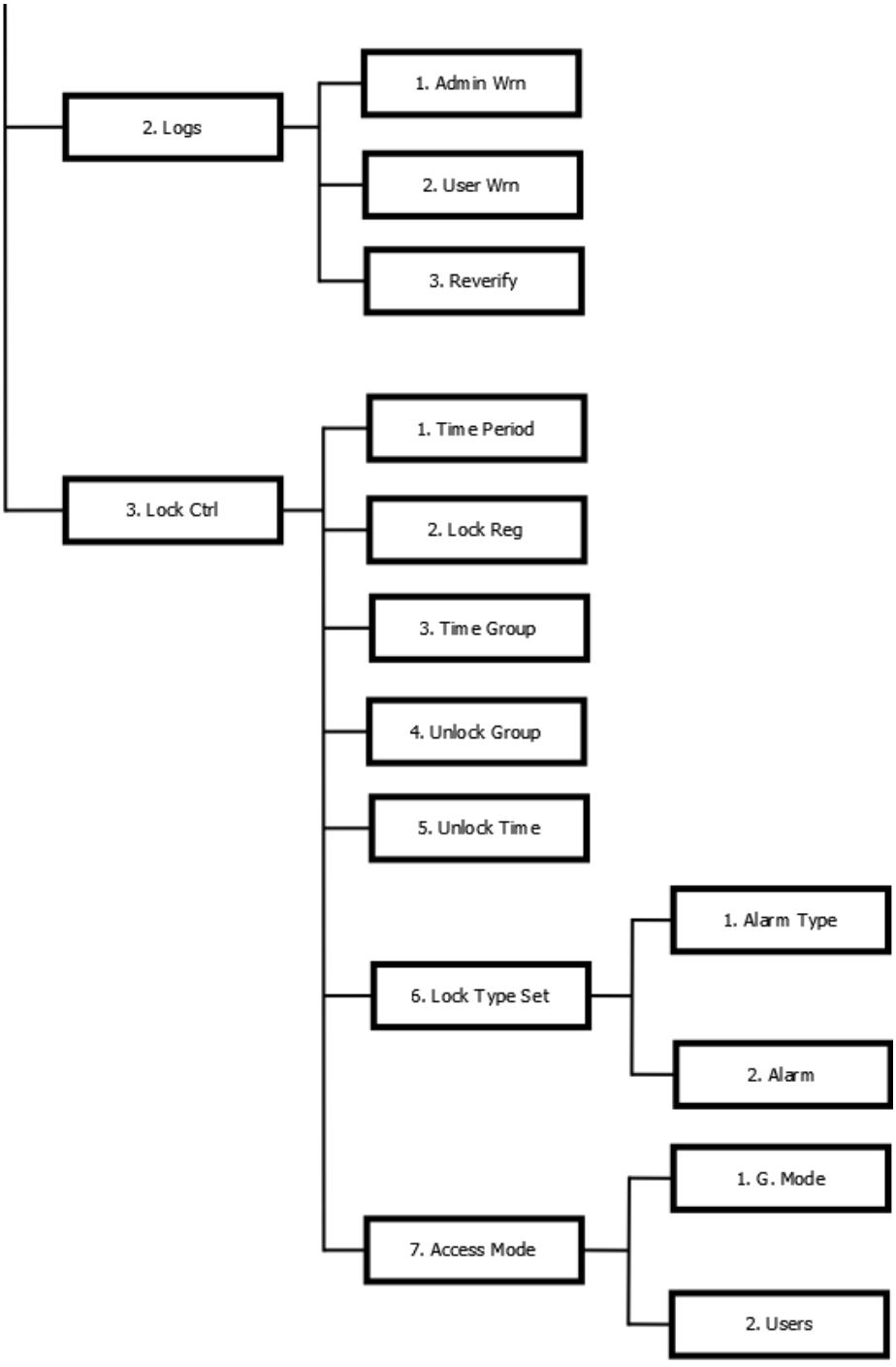


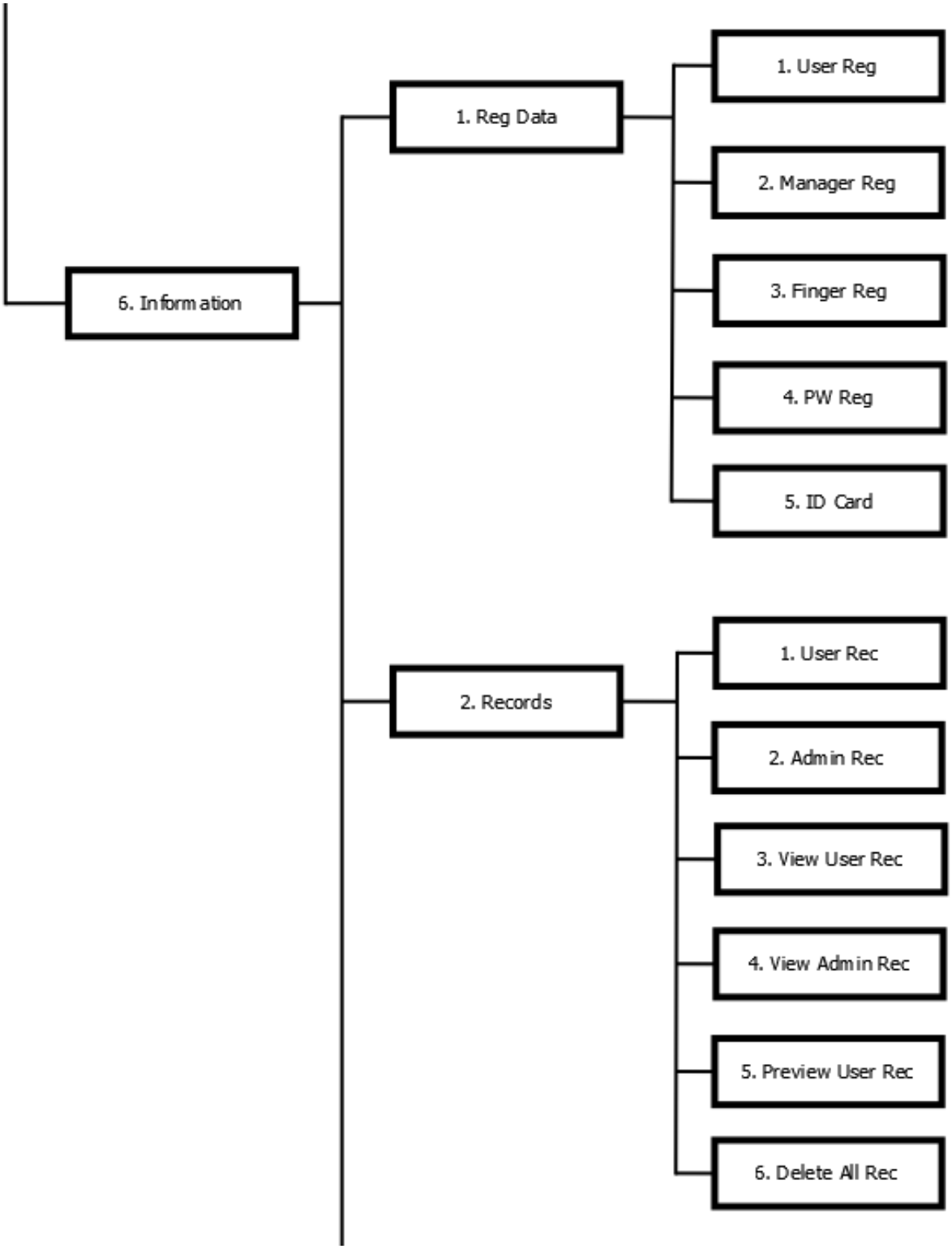
2.2 Menu Tree Chart

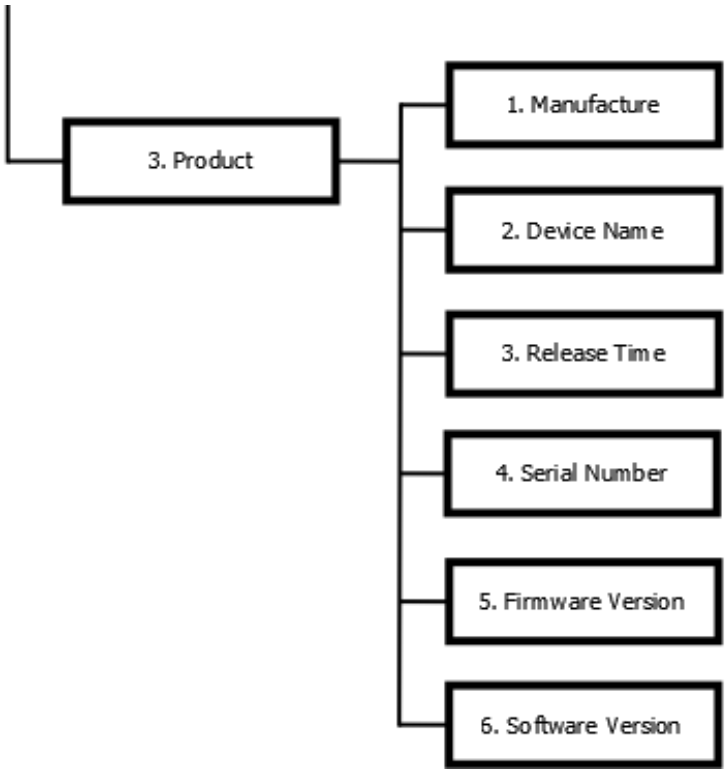



2. RS 232
3. Ethernet Dwnld
1. IP Address
2. Subnet Mask
3. Default Gateway
4. Port No.
5. Server IP
6. Ser Port No.
7. Server Req
4. Set Time and Date


5. Advanced Setting
1. Device
1. Machine ID
2. Admin Qnty
3. Language
4. Voice Out
5. Volume
6. Auto Off
7. Screen Saver
8. RS485 Download
9. Verify
10. Default Setting


2. Logs
1. Admin Wrn
2. User Wrn
3. Reverify
3. Lock Ctrl
1. Time Period
2. Lock Reg
3. Time Group
4. Unlock Group
5. Unlock Time
6. Lock Type Set
1. Alarm Type
2. Alarm
7. Access Mode
1. G. Mode
2. Users

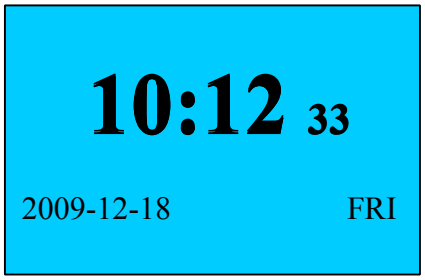

6. Information
1. Reg Data
1. User Reg
2. Manager Reg
3. Finger Reg
4. PW Reg
5. ID Card
2. Records
1. User Rec
2. Admin Rec
3. View User Rec
4. View Admin Rec
5. Preview User Rec
6. Delete All Rec


3. Product
1. Manufacture
2. Device Name
3. Release Time
4. Serial Number
5. Firmware Version
6. Software Version

3 GETTING STARTED

3.1 Start-up

Press the power button [•] to turn on the terminal. The Start-up window will appear as the following:



Press and hold the power button [•] for 2 seconds to turn off the terminal

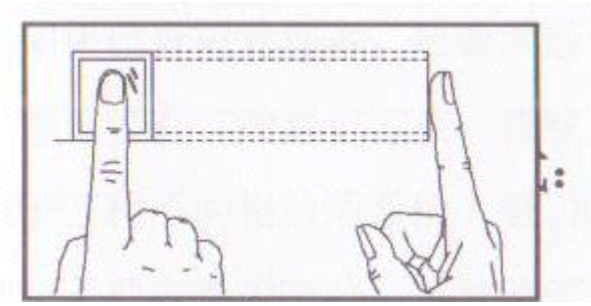
3.2 Fingerprint Enrollment

Tips: It is recommended that you enroll at least 2 fingerprints in the terminal in the event that if one of the fingerprints is injured or damaged, you can always punch in/out using the other finger. Each user can enroll 1 to 10 fingerprints in the terminal.

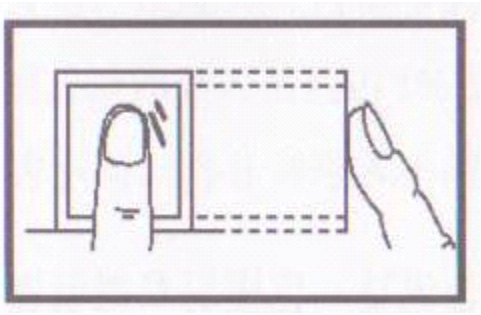
W-1288 will require an user to press each finger 3 times to successfully enroll the user. Place your finger in the middle of the sensor. To ensure better fingerprint reads, each time press the finger flat and firmly on the center of the sensor surface and cover as much of the sensor surface as possible.

3.2.1 Correct Finger Positioning:

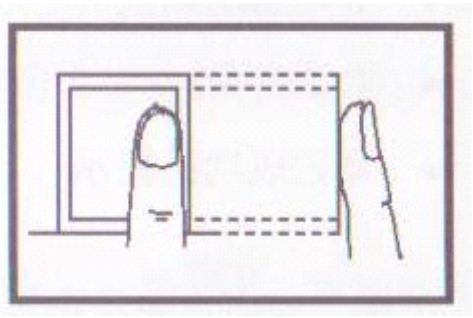
Place finger flat on the center sensor surface



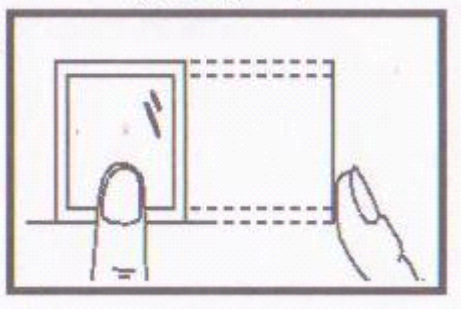
3.2.2 Incorrect Finger Positioning:



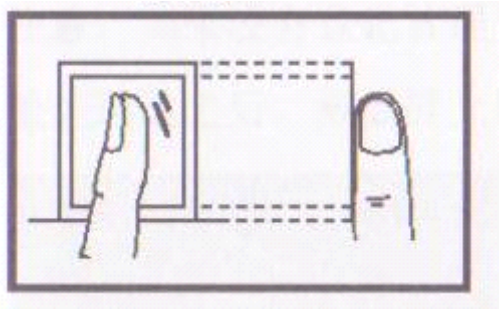
Vertical



Offset



Inclined



Lower

3.2.3 Tips for Improving Fingerprint Reads:

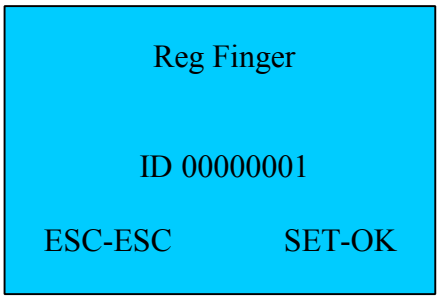
	Correction
Dirty or Dry Finger	Clean finger with moisturizing soap or wipe (alcohol-free wipes preferably)
Not enough pressure	User should place finger firmly and flat on the sensor surface.
How to select finger?	It is recommended that you enroll the index or middle finger. We also recommend you to enroll your fingerprints using the left hand fingers as their fingerprints are usually less worn or damaged than the right hand fingerprints.

How to position the finger?	Place finger flat with pressure on the center of the sensor surface; DO NOT touch the sensor in an angled or tilted position, DO NOT slide your finger.
Fingerprint pattern change	The verification process can be affected if an user punch in/out with a worn or injured finger. Use an alternate finger or select 1:1 verification mode.
Others	Very few people's fingerprint quality is too poor to be verified. Use User ID & Fingerprint verification method, or lower the 1:1 Threshold. Otherwise use Password or Proximity Card Verification Method (available in model W-1288P and W-1288PB).

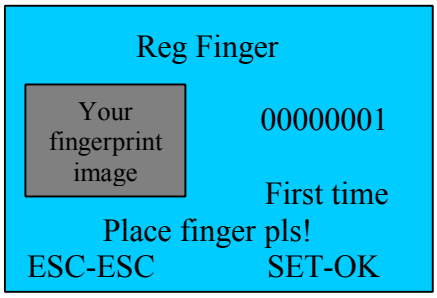
3.3 Register

3.3.1 Register User/Admin by Fingerprint

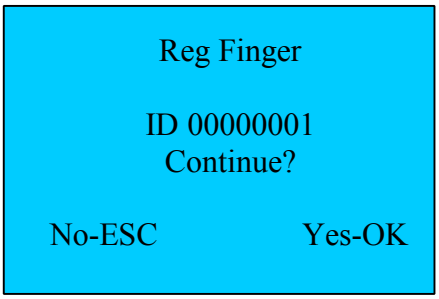
1) Press [MENU], select "Register", press [OK], select "User", press [OK]. Select "New Reg" to enroll a new user, or select "Backup" to enroll new fingerprint template to an existing user. Five enrollment methods are displayed, select "Finger", press [OK]. The following screen is displayed:

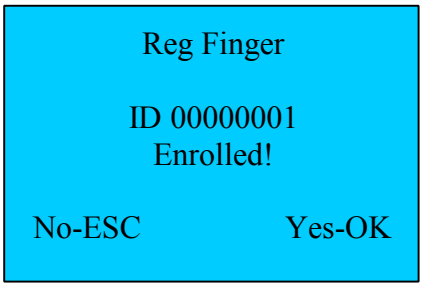


2) The terminal automatically suggests an available User ID number to you in sequence. Input the desired User ID number (range is 1 to 65534). Press [OK]. The following appears:



3) You will be prompted to press your finger (3) times for better collection of your fingerprint data. If the test is successful in all three times, the following appears:

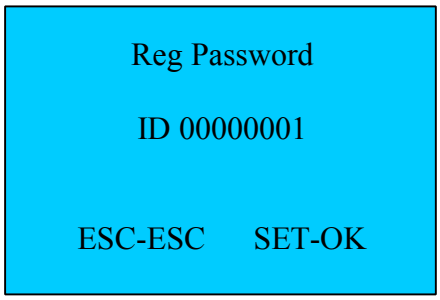




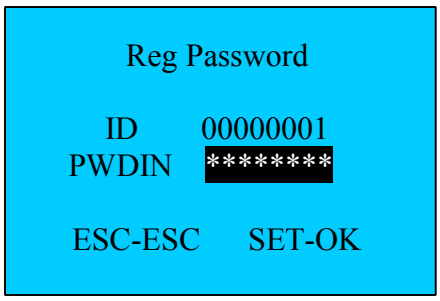
4) Press [**OK**], to enroll new user or press [ESC] to exit.

3.3.2 Register User/Admin by Password

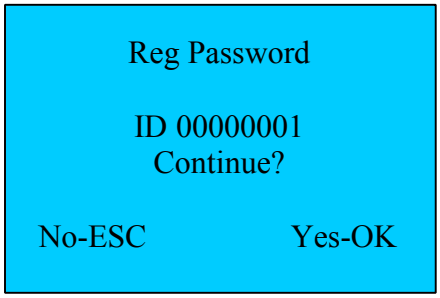
1) Press [**MENU**], select “Register”, press [**OK**], select “User”, press [**OK**]. Select "New Reg" to enroll a new user, or select "Backup" to enroll new fingerprint template to an existing user. Five enrollment methods are displayed, select “Password”, press [**OK**]. The following screenis displayed:

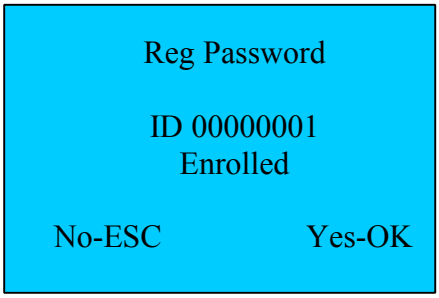


2) The terminal automatically suggests an available User ID number to you in sequence. Input the desired User ID number (range is 1 to 65534), press [OK]. The following appears:



3) You will be required to input a set of password with up to 8 digits twice and press[OK]. The following appears:

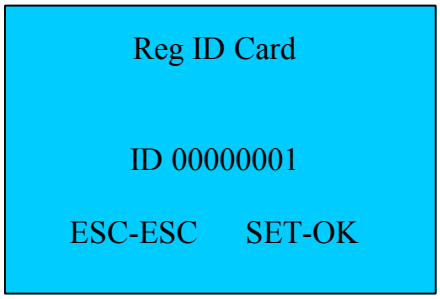




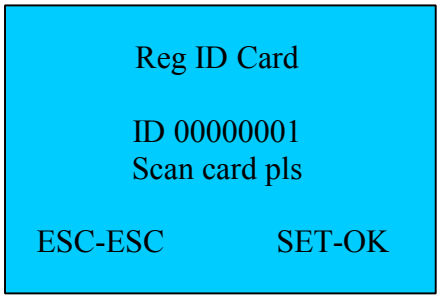
4) Press [**OK**], to enroll new user or press [**ESC**] to exit.

3.3.3 Register User/Admin by Proximity Card (Optional Function Available for W-1288P, W-1288PB)

1) Press [**MENU**], select “Register”, press [**OK**], select “User”, press [**OK**]. Select "New Reg" to enroll a new user, or select "Backup" to enroll new fingerprint template to an existing user. Five enrollment methods are displayed, select "ID Card”, press [**OK**]. The following screen is displayed:



2) The terminal automatically suggests an available User ID number to you in sequence. Input the desired User ID number (range is 1 to 65534), press [**OK**]. The following appears：

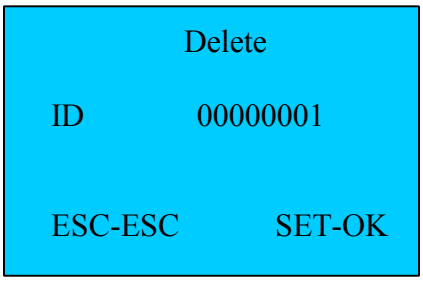


3) Place your ID card in front of the terminal (the sensor is located above the fingerprint sensor surface) and press [**OK**].
*Your ID card does not have to be in direct contact with the terminal. The sensor can detect the ID card within a distance range of 2" to 6" in front of the terminal.

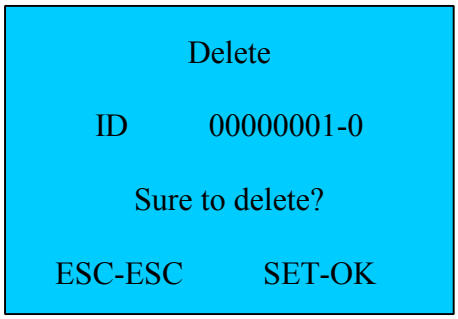
4) Press [**OK**], to enroll a new user or press [**ESC**] to exit.

3.4 Delete user

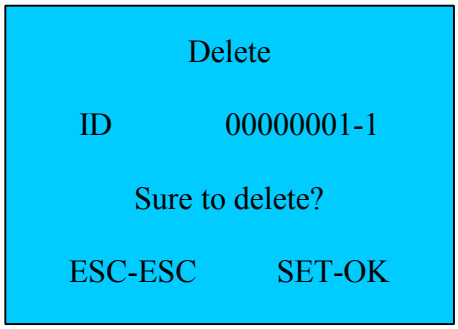
1) Press [**MENU**], select “Delete”, press [**OK**], the following appears:



2) Input the User ID, press [**OK**] to confirm. Follow the prompts to delete user.
Note: Each time an user is deleted, the terminal deletes only 1 fingerprint or password. If an user is registered with multiple fingerprints, the Delete process has to be repeated until all registered fingerprints and passwords are deleted. For example, if an user with 2 registered fingerprints is to be deleted, during the first Delete process, an user's first registered fingerprint will be deleted. The following appears for confirmation of deleting first registered fingerprint and Press [OK]:



After pressing [OK], the second registered fingerprint is automatically shown as the following for the confirmation of deleting second registered fingerprint:

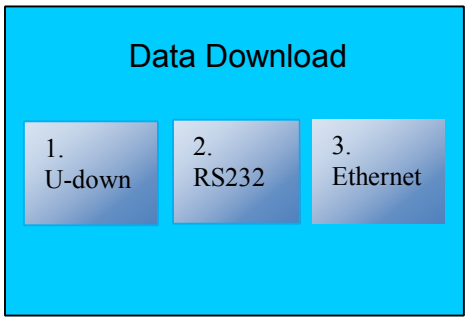


Continue to press [OK] until all registered fingerprints are deleted.

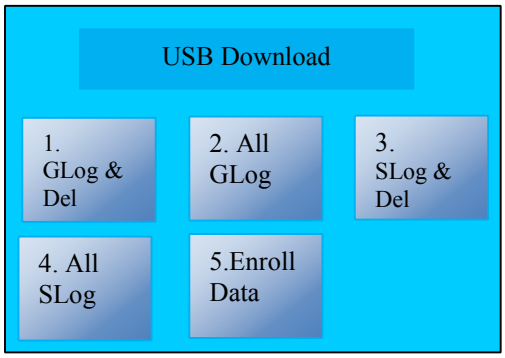
3.5 Set Communication

3.5.1 USB download

1) Press [**MENU**], select "Set COMM", press [**OK**], the following appears:

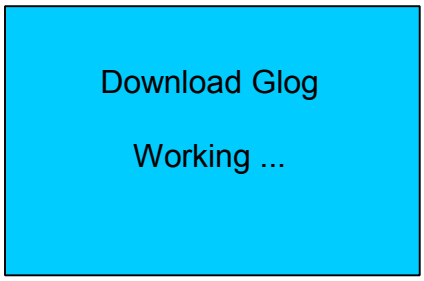


2) Press [**1**] to select USB download (make sure the USB thumb drive is already plugged into the terminal), one of the following windows appears:



	Description
GLog & Del	Allows you to transfer all users' attendance records to USB thumb drive and delete all records saved in the terminal.
All Glog	Allows you to only transfer all users' attendance records to USB thumb drive (without deleting records saved in the terminal).
SLog & Del	Allows you to transfer all Admin's attendance records to USB thumb drive and delete all records saved in the terminal.
All SLog	Allows you to only transfer all Admin's attendance records to USB thumb drive (without deleting records saved in the terminal).
Enroll Data	Allows you to transfer all employee data including ID numbers, fingerprint templates, proximity cards, and password to USB thumb drive. This serves as a purpose that if there are multiple terminals in one work place, transferring all employee information to another terminal via USB thumb drive eliminates the need of having employees to register with multiple terminals.

3) Select Glog, All Glog, or All enroll Data and the USB thumb drive will download the records directly from the terminal, the following appears:



(**Note: do not remove USB drive while downloading**)

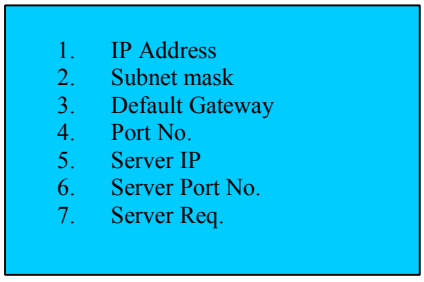
The following communication methods are solely used to connect with David-Link Time Management Software.

3.5.2 RS232 download

1) Press [2] to select RS232 download
2) Enter baud rate and press [OK].

3.5.3 Ethernet download

1) Press [3] to select Ethernet download, the following appears:



2) Configure the Ethernet setting according to your computer network setting.
3) There are 2 ways to connect the terminal with David-Link Time Management Software using Ethernet connection. It is recommended that you follow the setting below:

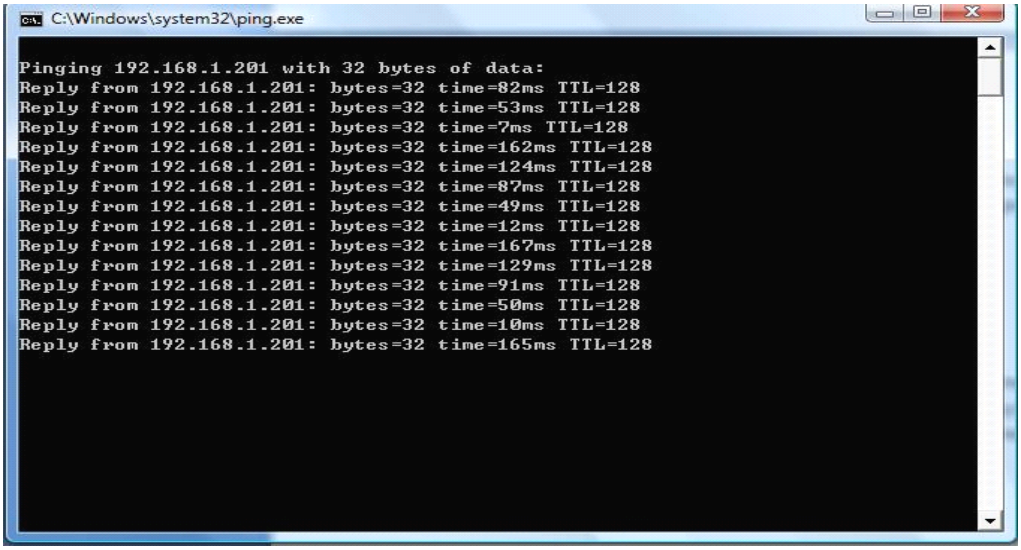
Terminal-to-PC Connection	Plug network cable into COM2 port on the bottom of the terminal and the appropriate Ethernet port on your computer.
Terminal-to-Hub Connection	Plug network cable into COM2 port on the bottom of the terminal and the appropriate hub in your network.

Terminal-to-PC Connection:

(a) On your computer, go to "Local Area Connection", right click and select "Properties", Click on "Internet Protocol Version 4 (TCP/IPv4)" and select "Properties". It is recommended to input the IP address as **192.168.1.200** and leave everything else as it is.

(b) On your terminal, Set IP Address as **192.168.1.201** and leave everything else as it is.

(c) To test the connection, plug network cable into COM2 port on the bottom of the terminal and the appropriate Ethernet port on your computer. On your computer, Ping the terminal by inputting ***ping 192.168.1.201 -t*** (For Microsoft® Windows XP, Windows VISTA, and Windows 7, you can ping the terminal by inputting the above information in the *Search* box once you click **Start** menu). If connection is made, the following appears:


C:\Windows\system32\ping.exe
Pinging 192.168.1.201 with 32 bytes of data:
Reply from 192.168.1.201: bytes=32 time=82ms TTL=128
Reply from 192.168.1.201: bytes=32 time=53ms TTL=128
Reply from 192.168.1.201: bytes=32 time=7ms TTL=128
Reply from 192.168.1.201: bytes=32 time=162ms TTL=128
Reply from 192.168.1.201: bytes=32 time=124ms TTL=128
Reply from 192.168.1.201: bytes=32 time=87ms TTL=128
Reply from 192.168.1.201: bytes=32 time=49ms TTL=128
Reply from 192.168.1.201: bytes=32 time=12ms TTL=128
Reply from 192.168.1.201: bytes=32 time=167ms TTL=128
Reply from 192.168.1.201: bytes=32 time=129ms TTL=128
Reply from 192.168.1.201: bytes=32 time=91ms TTL=128
Reply from 192.168.1.201: bytes=32 time=50ms TTL=128
Reply from 192.168.1.201: bytes=32 time=10ms TTL=128
Reply from 192.168.1.201: bytes=32 time=165ms TTL=128

d) Open your David-Link Time Management Software (DLTMS), select "Download", click on "Setting" and input the appropriate Device ID and IP address stored in the terminal (make sure the appropriate terminal is selected).

Terminal-to-Hub Connection

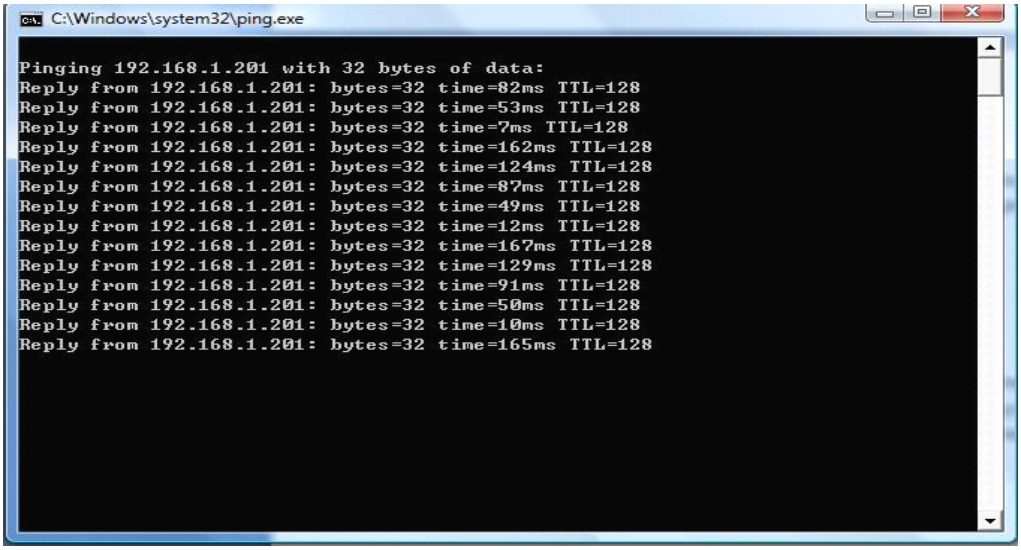
(a) On your computer, double-click on "Local Area Connection" and select "Details" to check your network IP Address.

(b) On your terminal, input the IP Address as the following:

XXX . XXX . X . YYY

IP Address	Terminal IP Address
XXX . XXX . X.	The first 3 sets of IP Address to be stored in the terminal should be identical as the first 3 sets of IP Address in you network.
YYY	The last set of IP Address to be stored in the terminal should be a 3-digit unique value. It strongly recommended that the last set of IP address to be stored in the terminal should be at least 201 and up.

(c) To test the connection, plug network cable into COM2 port on the bottom of the terminal and the appropriate hub in your network. On your computer, Ping the terminal by inputting ***ping your terminal IP address -t*** (For Microsoft® Windows XP, Windows VISTA, and Windows 7, you can ping the terminal by inputting the above information in the *Search* box once you click **Start**). If connection is made, the following appears:

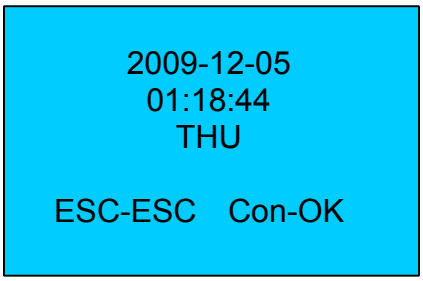

C:\Windows\system32\ping.exe
Pinging 192.168.1.201 with 32 bytes of data:
Reply from 192.168.1.201: bytes=32 time=82ms TTL=128
Reply from 192.168.1.201: bytes=32 time=53ms TTL=128
Reply from 192.168.1.201: bytes=32 time=7ms TTL=128
Reply from 192.168.1.201: bytes=32 time=162ms TTL=128
Reply from 192.168.1.201: bytes=32 time=124ms TTL=128
Reply from 192.168.1.201: bytes=32 time=87ms TTL=128
Reply from 192.168.1.201: bytes=32 time=49ms TTL=128
Reply from 192.168.1.201: bytes=32 time=12ms TTL=128
Reply from 192.168.1.201: bytes=32 time=167ms TTL=128
Reply from 192.168.1.201: bytes=32 time=129ms TTL=128
Reply from 192.168.1.201: bytes=32 time=91ms TTL=128
Reply from 192.168.1.201: bytes=32 time=50ms TTL=128
Reply from 192.168.1.201: bytes=32 time=10ms TTL=128
Reply from 192.168.1.201: bytes=32 time=165ms TTL=128

d) Open your David-Link Time Management Software (DLTMS), select "Download", click on "Setting" and input the appropriate Device ID and IP address stored in the terminal (make sure the appropriate terminal is selected).

4) Press [Esc] to exit and [Ok] to save changes.

3.6 Set Time and Date

1) Select “Date Time”, press [**OK**] the following appears:



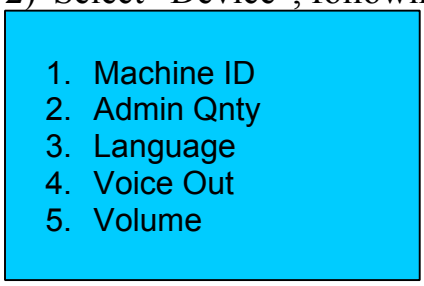
2) To change date & time, input the correct date, press [▲/▼],
enter the time and press **[OK]**.

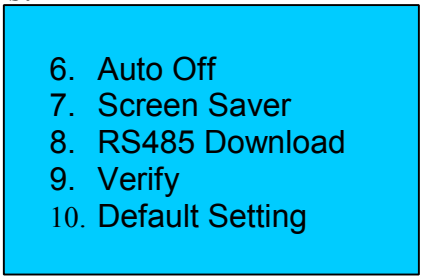
Note: The time and date can be updated by pressing [Time Sync] under [Download] menu when connecting with Time Management Software.

4 Advanced Setting

4.1 Device Setting

1) Press [**MENU**], select "Advanced", press [**OK**].
2) Select "Device", following appears:



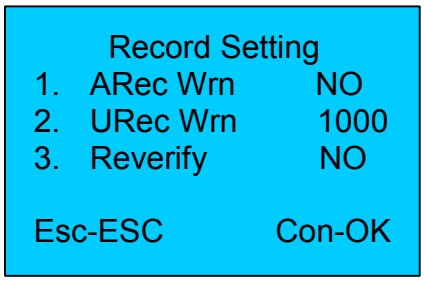


Setting	Description	Default
1. Machine ID	Machine ID is needed when connecting to the computer while multiple devices are in the same network.	1
2. Admin Qnty	Number of administrators allowed to register on device (1~10)	5
3. Language	Change device language. Support: English, Deutsch, Portuguese, French, Japanese, Korean, Spanish, Traditional Chinese, Chinese Simplified	English
4.Voice Out	Tune on/off the sound on device	Yes
5. Volume	Set system volume (1 ~ 10)	8
6. Auto Off	Automatically turn off the terminal when there is no activity detected within # minutes. (from 1-255)	No
7. Screen Saver	Turn on screen saver when there is no action detect within # of minutes	No
8. RS485 Download	Enable/Disable RS485 download	Yes
9. Verify	Verify user by fingerprint, ID card, and/or password. Select from: **F/P/C**: fingerprint, password, or ID card verification. **C+P**: both ID card and password verification (available in Model W-1288P and W-1288PB). **F+P**: both fingerprint and password verification. **F+C**: both fingerprint and ID card verification (available in Model W-1288P and W-1288PB). **C**: ID Card verification (available in Model W-1288P and W-1288PB). **P**: Password verification.	F/P/C
10. Default Setting	Restore device to factory default settings, and all current setting will lose.	x

3) Press [Esc] to exit and [Ok] to save changes.

4.2 Record Setting

1) Press [MENU], select “Advanced”, press [OK].
2) Select “Logs”, the following appears:



3) Press [1] or [2] to set the warning when the terminal's memory capacity can only save # more log records before the memory is full. (Enter the number of log records to remind you of the terminal's memory capacity approaching to its limit). [1]: number of Administrator's records for reminder warning; [2]: number of User's records for reminder warning.
4) Press [4] to set number of minutes before an user's another punch is accepted by the terminal. This function serves the purpose to avoid duplicate punches (Enter # of minutes from 1-255).

4.3 Lock Control (Additional Access Control Box Required)

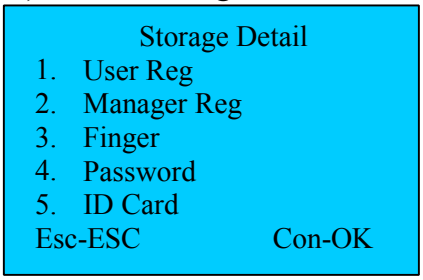
Not Available

Note: This product is intended for use as a Time & Attendance System. Installing this product as an access control system will void the warranty. David-Link is not responsible for any damage or defect caused by misusing this terminal as an access control system. Please contact us for information about access control system.

5 Terminal Information

5.1 Storage Detail

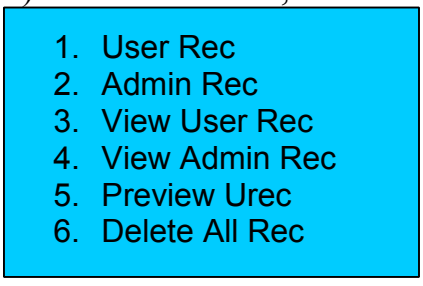
1) Press [MENU], select “View Info”, press [OK].
2) Select “Reg Data”, the following appears:



	Description
1. User Reg	View number of users registered in the terminal
2. Manager Reg	View number of Administrators registered in the terminal
3. Finger	View number of fingerprints enrolled in the terminal
4. Password	View number of password combinations stored in the terminal
5. ID Card	View number of ID cards registered in the terminal

5.2 Record Detail

1) Press [MENU], select “View Info”, press [OK].
2) Press “Record”, the following appears:

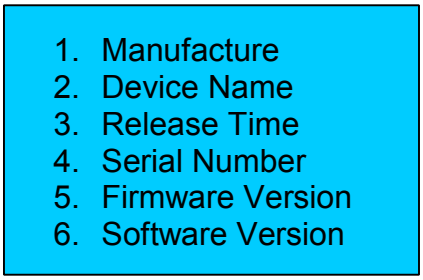


	Description
1. User Rec	View number of user's log records saved in the terminal.
2. Admin Rec	View number of administrator's log records saved in the terminal.
3. View User Rec (in order of transactions)	To view a specific user's log records, input the user's ID number and press [OK] to view.
4. View Admin Rec	To view a specific administrator's log records, input the administrator's ID number and press [OK] to view.
5. Preview User Rec (in order of date)	To view a specific user's log records, input the user's ID number and press [OK] to view.
6. Delete All Rec*	View number of user's log records saved in the terminal.

**David-Link is not responsible for any lost data and record. Please make sure you save all your data and records in a safe place. Log records cannot be recovered after you delete all log records saved in the terminal.*

5.3 System Detail

1) Press [MENU], select "Information", press [OK].
2) Select "Product", the following appears:



Here, you can find our company information and contact method within the [Manufacture] function. Please also find your [Serial Number], [Firmware Version] and [Software Version] here when we ask for the information.

3) Press [ESC] to exit.

6 Troubleshooting

6.1 Q. & A.

Q: Fingerprint cannot be verified.
A: Possible Causes:
1) Fingerprint is damaged or smooth;
2) Finger is dry.

Q: What is the standard warranty on biometric time clocks?
A: The standard warranty on a biometric time clock is a period of 1 year from the date of original purchase from David-Link or an Authorized David-Link Reseller. However, there are things that the warranty does not cover. Please read the Certificate of Warranty carefully for the parts that the warranty does not cover.

Q: How do I remove an Admin User?
A: Only an Admin user can add/remove an user on the device.

Q: Device cannot be turned on. Is it a defective product?
A: Please make sure the power adaptor is plugged into the outlet and the device. If the device still cannot be turned on after the power adaptor is correctly plugged, please contact David-Link Technical Support Team at 888.755.9418.

Q: How do I get replacement parts such as ribbon cassettes or backup batteries?
A: Please visit our website: www.davidlinkusa.com or contact us at 1.888.755.9418 to get information about ordering replacement parts.

6.2 Fingerprint Privacy:

1. The W-1288 merely captures points of the fingerprint but not the actual fingerprint image.
2. The fingerprint points cannot be used to create a fingerprint image.
3. David-Link will not be liable for any direct or the indirect damages resulting from the use or inability to use our equipment.
4. If you have a question about privacy concerning the use of our equipment you should have your employer contact David-Link.